VARUN AJITH

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OBJECTIVE

A graduate in Robotics and Automation Engineering with a PG Diploma in Industrial Automation, specializing in ROS 2, Python, C++, and PLC programming. Seeking a Robotics Engineer role to leverage skills in robotics system integration, motion planning, and control systems to contribute to innovative projects in autonomous systems and industrial automation.

EDUCATION

BTech in Robotics and Automation, Saintgits College of Engineering, Kottayam 2019 - 2023
CGPA: 7.7

Higher Secondary Education, GHSS Ramapuram 2015 - 2017
Percentage: 85%

Secondary Education, Bishop Moore Vidyapith, Kayamkulam 2010 - 2015
Percentage: 80%

SKILLS

Robotics	ROS 2, ROS, Gazebo, Hardware Integration
Programming	Python (Proficient), C++ (Proficient), C (Proficient), OOP Concepts
Tools	CAD, SCADA, PCB Designing, Ladder Logic, PLC Programming
Soft Skills	Resilience, Critical Thinking, Team Player, Driven, Continuous Learner

PROJECTS

- **Auto Mains Fail (AMF)**: Constructed an Auto Mains Fail prototype using PLC technology and ladder logic, enhancing reliability by reducing power failure response time by 25%.
- **Search and Rescue Robot**: Engineered an autonomous hexapod prototype for disaster scenarios, incorporating advanced path planning and sensor integration for reliable search and rescue operations in hazardous environments.
- **Automatic Metal Segregator**: Designed a PLC-controlled conveyor system for metal segregation, improving sorting accuracy by 5% through optimized sensor placement and ladder logic programming.
- **Gesture Controlled Robot Car**: Developed a gesture-controlled robot car with advanced gesture recognition algorithms, enhancing user interaction accuracy over standard models.

CERTIFICATION

Pursued a comprehensive **PG Diploma in Industrial Automation** at SMEC Labs, Kochi, from August 2023 to December 2023. Covered **PLC programming, SCADA systems, industrial robotics, and control systems integration**, developing expertise in advanced automation technologies.

PUBLICATION

Published in Volume 12, Issue 1, 2024 of the International Journal of Science, Engineering, and Technology (IJSET), the research paper titled '**Search and Rescue Robot**' details the development of a six-legged robot for navigating unpredictable terrains, showcasing the application of autonomous robotics in critical rescue scenarios.